

**Flood Control Project Maintenance
Levee Inspections****LMA District Cover Sheet****Spring 2015 Levee Inspection Results****Reclamation District No. 0544 Upper Roberts Island**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)				

** Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

*
SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments

**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2015 Levee Inspection Results

Reclamation District No. 0544 Upper Roberts Island

Waterway			Bank	Unit Miles
Unit No. 01 San Joaquin River			Left	6.05
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	04/28/2015 - 04/28/2015			
DWR Inspector	Richard Willoughby			
Accompanied By				

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	66
LM End	0.00	Issue Type +	Ma	Location *	N/A
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Flood Preparedness & Training				°
					°
DWR ID	DWR_RD0544_01_s_2012_66				
Action/Comments					
Inspector Comments: The LMA has a good working knowledge of flood response. LMA has not been involved in flood training for several years.					

No Photos

LM Start	0.00	Rating **	A	Issue No.	71	
LM End	0.00	Issue Type +	Ma	Location *	N/A	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Operations & Maintenance Manuals				°	°
					°	°
DWR ID	DWR_RD0544_01_s _ 2013_71					
Action/Comments						
Inspector Comments: The LMA has a copy of O&M manual on file in the office.						

No Photos

LM Start	0.00	Rating **	A	Issue No.	72	
LM End	0.00	Issue Type +	Ma	Location *	N/A	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Emergency Supplies & Equipment				°	°
					°	°
DWR ID	DWR_RD0544_01_s _ 2013_72					
Action/Comments						
Inspector Comments: The LMA maintains an adequate supply of floodfight material.						

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	0.00	Rating **	M	Issue No.	164
LM End	0.00	Issue Type +	En	Location *	N/A
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.870356 °	37.870356 °
				-121.329852 °	-121.329852 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:41906 DS_ID:22640 EP_NO: 4116 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Need to contact owner to determine status.a signboard on waterside shoulder and across the river.no indicators on landside. FIELD_STRUCT_DESC: 8-5/8-inch steel gas line through the levee, 3.9 feet below the crown and under the river channel. Waterward slope rock revetted. (App. No. 4116 - PG&E) O&M Manual SJR 007, April 1964. FS Date: 10/29/2013					

No Photos

LM Start	0.01	Rating **	M	Issue No.	165
LM End	0.01	Issue Type +	En	Location *	N/A
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.870296 °	37.870296 °
				-121.329826 °	-121.329826 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:23851 DS_ID:24713 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned. May need proper abandonment. Pipe exposed on landside slope. FIELD_STRUCT_DESC: A 12-inch steel pipe through the levee, 2 feet below levee crown. Appears abandoned. Only visible on landside slope. No pipe and other features visible on waterside. FS Date: 10/29/2013					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	0.01	Rating **	M	Issue No.	92
LM End	0.01	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.870285 °	37.870285 °
				-121.329822 °	-121.329822 °
DWR ID	DWR_RD0544_01_f_2014_92				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	0.23	Rating **	M	Issue No.	4
LM End	0.23	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.867590 °	37.867590 °
				-121.327813 °	-121.327813 °
DWR ID	DWR_RD0544_01_s_2012_4				
Action/Comments					
Equipment					
Inspector Comments: Farm equipment and supplies stored at landward toe.					

Photo 1 of 3 : SP_2015_RD0544_108_4_20150430_00070.jpg



Looking south at farm equipment at landward toe. (Spring 2015)

Photo 2 of 3 : SP_2015_RD0544_108_4_20150309_00003.jpg



Looking north at equipment along landside toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	0.23	Rating **	M	Issue No.	4 (cont)	
LM End	0.23	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			37.867590 °		37.867590 °
				-121.327813 °		-121.327813 °
DWR ID	DWR_RD0544_01_s_2012_4					
Action/Comments						
Equipment						
Inspector Comments: Farm equipment and supplies stored at landward toe.						

Photo 3 of 3 : SP_2015_RD0544_108_4_20150309_00004.jpg



Looking south at equipment along landside toe.

LM Start	0.26	Rating **	M	Issue No.	84
LM End	0.26	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.867087 °	37.867087 °
				-121.327802 °	-121.327802 °
DWR ID	DWR_RD0544_01_s_2015_84				
Action/Comments					
Material Inspector Comments: Landowner stock pile old wooden fencing at landward toe.					

Photo 1 of 1 : SP_2015_RD0544_108_84_20150430_00071.jpg



Looking west at old wooden fencing stock pile at landward toe.

LM Start	0.26	Rating **	M	Issue No.	85
LM End	0.36	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.867087 °	37.865668 °
				-121.327802 °	-121.327798 °
DWR ID	DWR_RD0544_01_s_2015_85				
Action/Comments					
Ditch					
Inspector Comments: Irrigation ditch at landward toe.					

Photo 1 of 1 : SP_2015_RD0544_108_85_20150430_00072.jpg



Looking southwest at Irrigation ditch at landward toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	0.38	Rating **	M	Issue No.	166
LM End	0.38	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.865468 °	37.865468 °
				-121.327602 °	-121.327602 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:41974 DS_ID:22643 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Not Found UCIP Comments: Dense vegetation on waterside. FIELD_STRUCT_DESC: Abandoned pipe approximately 8.0 feet below the crown, unable to determine diameter, plugged by the United States Army Corps of Engineers, 1962. FS Date: 10/29/2013					

No Photos

LM Start	0.42	Rating **	A/W	Issue No.	2	
LM End	0.42	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Trim / Thin Trees			37.864958 °	37.864958 °	
				-121.327142 °	-121.327142 °	
DWR ID	DWR_RD0544_01_s_2012_2					
Action/Comments						
Thin trees to allow visibility of the ground and room to flood fight.						

No Photos

LM Start	0.45	Rating **	M	Issue No.	1
LM End	0.45	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.864713 °	37.864713 °
				-121.326708 °	-121.326708 °
DWR ID	DWR_RD0544_01_f_2013_1				
Action/Comments					
Material					
Inspector Comments: Old broken concrete pipes on waterward berm.					

Photo 1 of 1 : SP_2015_RD0544_108_1_20150430_00073.jpg



Looking northeast at broken concrete piping on waterward berm.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	0.45	Rating **	M	Issue No.	6
LM End	0.45	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.864713 °	37.864713 °
				-121.326708 °	-121.326708 °
DWR ID	DWR_RD0544_01_f_2013_6				
Action/Comments					
Prunings					
Inspector Comments: Broken tree limbs on waterward slope and berm.					

Photo 1 of 1 : SP_2015_RD0544_108_6_20150309_00006.jpg



Looking southeast at tree branch on waterward slope.

LM Start	0.48	Rating **	A/W	Issue No.	3
LM End	0.67	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.864578 °	37.863753 °
				-121.326210 °	-121.322835 °
DWR ID	DWR_RD0544_01_s_2012_3				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

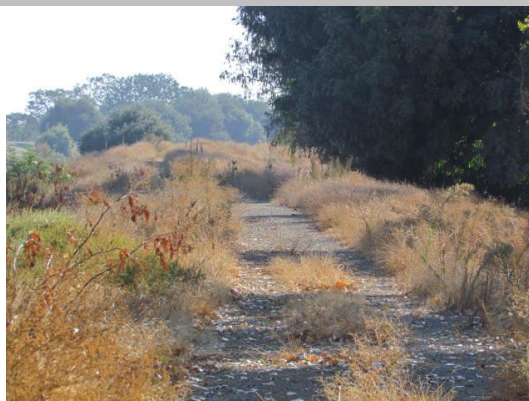
Photo 1 of 2 : SP_2015_RD0544_108_3_20150309_00001.jpg



Looking south at typical view of levee. (Spring 2014)

LM Start	0.48	Rating **	A/W	Issue No.	3 (cont)
LM End	0.67	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2015_RD0544_108_3_20150309_00002.jpg



Looking south at overgrown on landward and waterward slopes.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	0.55	Rating **	A/W	Issue No.	61
LM End	0.63	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.864359 °	37.864011 °
				-121.324939 °	-121.323562 °
DWR ID	DWR_RD0544_01_f_2013_61				
Action/Comments					
Add appropriate material and re-grade the levee to bring the crown above the design elevation.					

No Photos

LM Start	0.64	Rating **	M	Issue No.	86
LM End	0.64	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.863972 °	37.863972 °
				-121.323443 °	-121.323443 °
DWR ID	DWR_RD0544_01_s_2015_86				
Action/Comments					
Sign					
Inspector Comments: Old "dead end" sign on waterward slope.					

Photo 1 of 1 : SP_2015_RD0544_108_86_20150430_00074.jpg



Looking southeast at wooden sign on waterward slope.

LM Start	0.64	Rating **	M	Issue No.	9
LM End	0.70	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.863935 °	37.863599 °
				-121.323341 °	-121.322442 °
DWR ID	DWR_RD0544_01_s_2012_9				
Action/Comments					
Landscaping					

Photo 1 of 1 : SP_2015_RD0544_108_9_20150309_00008.jpg



Looking south at landscaping on landward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	0.70	Rating **	M	Issue No.	10
LM End	0.70	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.863575 °	37.863575 °
				-121.322367 °	-121.322367 °
DWR ID	DWR_RD0544_01_s _ 2012_10				
Action/Comments					
Landscaping					

No Photos

LM Start	0.73	Rating **	A/W	Issue No.	12
LM End	0.73	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.863380 °	37.863380 °
				-121.321897 °	-121.321897 °
DWR ID	DWR_RD0544_01_s _ 2012_12				
Action/Comments					
Trim trees over roadway to at least 12 feet above ground level.					

No Photos

LM Start	0.78	Rating **	M	Issue No.	73	
LM End	0.78	Issue Type +	Ma	Location *	WS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Trim / Thin Trees				°	°
					°	°
DWR ID	DWR_RD0544_01_f_2013_73					
Action/Comments						
Trim trees to at least five feet above ground level.						

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	0.81	Rating **	M	Issue No.	93
LM End	0.81	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.862694 °	37.862694 °
				-121.320887 °	-121.320887 °
DWR ID	DWR_RD0544_01_f_2014_93				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	1.12	Rating **	M	Issue No.	39
LM End	1.12	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.859423 °	37.859423 °
				-121.318328 °	-121.318328 °
DWR ID	DWR_RD0544_01_s_2012_39				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : SP_2015_RD0544_108_39_20150430_00075.jpg



Looking southwest at untrimmed tree at landward slope and toe.

LM Start	1.13	Rating **	M	Issue No.	15
LM End	1.30	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.859287 °	37.857322 °
				-121.318333 °	-121.319985 °
DWR ID	DWR_RD0544_01_s_2012_15				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 1 : SP_2015_RD0544_108_15_20150309_00009.jpg



Looking southeast at dense vegetation on landward toe.

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	1.29	Rating **	M	Issue No.	89
LM End	1.29	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.857321 °	37.857321 °
				-121.319943 °	-121.319943 °
DWR ID	DWR_RD0544_01_s _ 2014_89				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	1.33	Rating **	A/W	Issue No.	19
LM End	1.43	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.857042 °	37.855792 °
				-121.320480 °	-121.321212 °
DWR ID	DWR_RD0544_01_s _ 2012_19				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	1.42	Rating **	M	Issue No.	87
LM End	1.48	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.855948 °	37.855043 °
				-121.321250 °	-121.321122 °
DWR ID	DWR_RD0544_01_s _ 2015_87				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	1.43	Rating **	N	Issue No.	13
LM End	1.43	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.855778 °	37.855778 °
				-121.321206 °	-121.321206 °
DWR ID	DWR_RD0544_01_s _ 2012_13				
Action/Comments					
Tree stumps.					

No Photos

LM Start	1.44	Rating **	N	Issue No.	14
LM End	1.44	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.855583 °	37.855583 °
				-121.321177 °	-121.321177 °
DWR ID	DWR_RD0544_01_s _ 2012_14				
Action/Comments					
Tree stumps.					

No Photos

LM Start	1.48	Rating **	A/W	Issue No.	94
LM End	1.50	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.855097 °	37.854722 °
				-121.321136 °	-121.321072 °
DWR ID	DWR_RD0544_01_f _ 2014_94				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 1 : SP_2015_RD0544_108_94_20150309_00054.jpg



Looking north at vegetation on waterward shoulder and slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

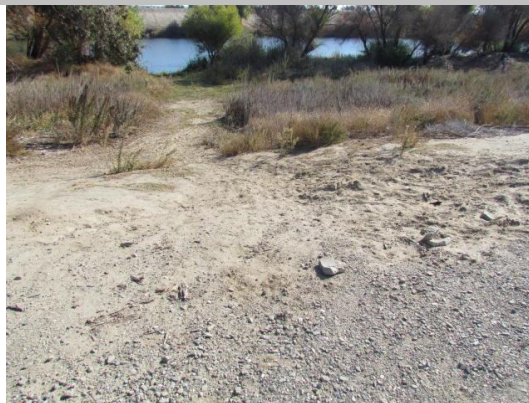
Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	1.48	Rating **	A/W	Issue No.	42
LM End	1.54	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.855087 °	37.854187 °
				-121.321127 °	-121.321055 °
DWR ID	DWR_RD0544_01_s_2012_42				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	1.56	Rating **	M	Issue No.	64
LM End	1.56	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.854081 °	37.854081 °
				-121.321268 °	-121.321268 °
DWR ID	DWR_RD0544_01_f_2013_64				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comments: Damaged levee slope due to fishermen using slope as a ramp.					

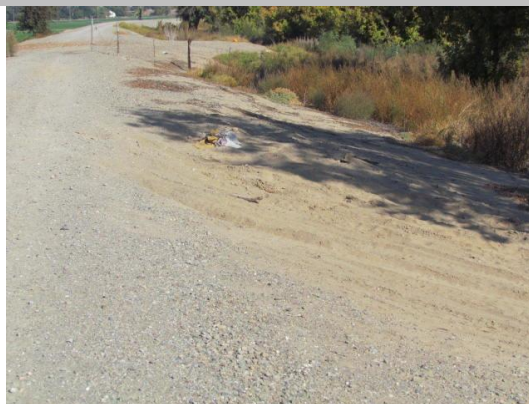
Photo 1 of 2 : SP_2015_RD0544_108_64_20150309_00043.jpg



Looking east at damaged waterward slope.

LM Start	1.56	Rating **	M	Issue No.	64 (cont)
LM End	1.56	Issue Type +	Ma	Location *	WS

Photo 2 of 2 : SP_2015_RD0544_108_64_20150309_00044.jpg



Looking northeast at waterward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	1.57	Rating **	A/W	Issue No.	43
LM End	1.68	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.854108 °	37.854837 °
				-121.321582 °	-121.323280 °
DWR ID	DWR_RD0544_01_s _ 2012_43				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	1.59	Rating **	M	Issue No.	95
LM End	1.59	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.854299 °	37.854299 °
				-121.321865 °	-121.321865 °
DWR ID	DWR_RD0544_01_f _ 2014_95				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	1.64	Rating **	M	Issue No.	96
LM End	1.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.854681 °	37.854681 °
				-121.322493 °	-121.322493 °
DWR ID	DWR_RD0544_01_f _ 2014_96				
Action/Comments					
Thin trees to allow visibility of the ground and room to flood fight.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	1.72	Rating **	A/W	Issue No.	55
LM End	1.84	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.854530 °	37.852850 °
				-121.323870 °	-121.324058 °
DWR ID	DWR_RD0544_01_s _ 2012_55				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	1.74	Rating **	U	Issue No.	167
LM End	1.74	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.854506 °	37.854506 °
				-121.323886 °	-121.323886 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:43023 DS_ID:22648 EP_NO: 4114 Repair Type: Urgent Crossing Status: Found UCIP Comments: - levee depression on both sides of the levee 2-inch electric conduit on waterside and service pole on landside Walkway in poor structural condition. FIELD_STRUCT_DESC: 18-inch steel pipe through the levee 2 feet below the crown, pump mounted on pile structure pier in the stream. Siphon breaker on the landward slope. Concrete standpipe at the toe of the landward slope. (App. No. 4114-Katie M. Feck) O&M Manual SJR 007, April 1964. FS Date: 10/29/2013					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	1.78	Rating **	M	Issue No.	88
LM End	1.78	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.853770 °	37.853770 °
				-121.324293 °	-121.324293 °
DWR ID	DWR_RD0544_01_s _ 2015_88				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	1.80	Rating **	A/W	Issue No.	20
LM End	1.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.853445 °	37.853445 °
				-121.324227 °	-121.324227 °
DWR ID	DWR_RD0544_01_s _ 2012_20				
Action/Comments					
Prunings					

No Photos

LM Start	1.82	Rating **	M	Issue No.	5
LM End	1.82	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.853188 °	37.853188 °
				-121.324145 °	-121.324145 °
DWR ID	DWR_RD0544_01_s _ 2013_5				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comments: Slope damaged by vehicle traffic.					

Photo 1 of 1 : SP_2015_RD0544_108_5_20150309_00005.jpg



Looking east at landward slope damaged by vehicle traffic.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	1.85	Rating **	A/W	Issue No.	21
LM End	1.85	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.852771 °	37.852771 °
				-121.324014 °	-121.324014 °
DWR ID	DWR_RD0544_01_s _ 2012_21				
Action/Comments					
Prunings					

No Photos

LM Start	1.94	Rating **	A/W	Issue No.	44
LM End	2.26	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.851615 °	37.848105 °
				-121.323210 °	-121.324857 °
DWR ID	DWR_RD0544_01_s _ 2012_44				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	2.01	Rating **	A/W	Issue No.	90
LM End	2.01	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.850825 °	37.850825 °
				-121.322475 °	-121.322475 °
DWR ID	DWR_RD0544_01_s _ 2014_90				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					
Inspector Comments: LMA grouted rodent hole on levee crown.					

Photo 1 of 2 : SP_2015_RD0544_108_90_20150309_00050.jpg



Looking at rodent hole on levee crown.

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	2.01	Rating **	A/W	Issue No.	90 (cont)
LM End	2.01	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.850825 °	37.850825 °
				-121.322475 °	-121.322475 °
DWR ID	DWR_RD0544_01_s_2014_90				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows. Inspector Comments: LMA grouted rodent hole on levee crown.					

Photo 2 of 2 : SP_2015_RD0544_108_90_20150309_00051.jpg



Looking at grouted rodent hole on levee crown.

LM Start	2.02	Rating **	A/W	Issue No.	97
LM End	2.25	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.850632 °	37.848206 °
				-121.322501 °	-121.324869 °
DWR ID	DWR_RD0544_01_f_2014_97				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	2.26	Rating **	U	Issue No.	23
LM End	2.26	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.848155 °	37.848155 °
				-121.324897 °	-121.324897 °
DWR ID	DWR_RD0544_01_s_2012_23				
Action/Comments					
Schedule repair of erosion site prior to the next inspection.					
Inspector Comments: Caving/erosion around irrigation pipe on landside slope.					

Photo 1 of 3 : SP_2015_RD0544_108_23_20150309_00024.jpg



Looking south at erosion around irrigation pipe on landside slope. (Fall 2014)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	2.26	Rating **	U	Issue No.	23 (cont)
LM End	2.26	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.848155 °	37.848155 °
				-121.324897 °	-121.324897 °
DWR ID	DWR_RD0544_01_s_2012_23				
Action/Comments					
Schedule repair of erosion site prior to the next inspection. Inspector Comments: Caving/erosion around irrigation pipe on landside slope.					

Photo 2 of 3 : SP_2015_RD0544_108_23_20150309_00025.jpg



Looking north at erosion under irrigation pipe on landside slope.

Photo 3 of 3 : SP_2015_RD0544_108_23_20150309_00026.jpg



Looking east at erosion under irrigation pipe on landside slope.

LM Start	2.26	Rating **	M	Issue No.	98
LM End	2.31	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.848021 °	37.847343 °
				-121.324839 °	-121.324672 °
DWR ID	DWR_RD0544_01_f_2014_98				
Action/Comments					
Thin trees to allow visibility of the ground and room to flood fight.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	2.27	Rating **	U	Issue No.	168
LM End	2.27	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.848225 °	37.848225 °
				-121.324868 °	-121.324868 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:23945 DS_ID:22650 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: Siphon breaker on the landward slope not found. It has been removed and pipe plugged. Huge levee slope erosion on landside. 2-inch electric conduit on waterside, service pole on landside. FIELD_STRUCT_DESC: 14-inch steel pipe through the levee, 2.0 feet below the crown, pump on pile structure in the stream. Steel walkway to the pump. 2-inch electric conduit on waterside, power pole on landside. O&M Manual SJR 007, April 1964. FS Date: 10/29/2013					

No Photos

LM Start	2.27	Rating **	M	Issue No.	8	
LM End	2.33	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start	End	
Item	Animal Control			37.847973 °	37.847105 °	
				-121.324820 °	-121.324577 °	
DWR ID	DWR_RD0544_01_s _ 2012_8					
Action/Comments						
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.						

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	2.28	Rating **	U	Issue No.	169
LM End	2.28	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.848052 °	37.848052 °
				-121.324846 °	-121.324846 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:23946 DS_ID:22651 EP_NO: 3300 Repair Type: Urgent Crossing Status: Found UCIP Comments: - erosion on landside and waterside levee slopes due to the pipe leakage.1.5-inch electric conduit FIELD_STRUCT_DESC: 18-inch steel pipe through the levee, 3.5 feet below the crown, pump mounted on pile structure in the stream. Siphon breaker on the landward slope. Concrete standpipe and service pole at the toe of the landward slope. (App. No. 3300-Lloyd Phelps) O&M Manual SJR 007, April 1964. FS Date: 10/29/2013					

No Photos

LM Start	2.28	Rating **	M	Issue No.	170
LM End	2.28	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.848029 °	37.848029 °
				-121.324851 °	-121.324851 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:24887 DS_ID:22652 EP_NO: 13554 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - levee slope erosion on landside,needs cleaning of siphon breaker. FIELD_STRUCT_DESC: 12-inch steel pipe, pump in concrete standpipe on drainage ditch on landside. Siphon breaker in steel riser on waterside. (App. No. 13554 - Phelps; 12/7/82), O&M Manual SJR 007, April 1964. FS Date: 10/29/2013					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	2.32	Rating **	M	Issue No.	34
LM End	2.36	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.847292 °	37.846743 °
				-121.324662 °	-121.324336 °
DWR ID	DWR_RD0544_01_s_2012_34				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows. Inspector Comments: Several rodent hole within this reach.					

Photo 1 of 2 : SP_2015_RD0544_108_34_20150430_00076.jpg



Looking south at several rodent holes on landward shoulder and slope.

Photo 2 of 2 : SP_2015_RD0544_108_34_20150430_00077.jpg



Looking at rodent hole on levee crown.

LM Start	2.33	Rating **	M	Issue No.	7
LM End	2.33	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.847108 °	37.847108 °
				-121.324585 °	-121.324585 °
DWR ID	DWR_RD0544_01_s_2012_7				
Action/Comments					
Garbage					
Inspector Comments: Garbage and prunings at landside toe.					

Photo 1 of 1 : SP_2015_RD0544_108_7_20150309_00007.jpg



Looking southwest at garbage at landside toe.

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	2.36	Rating **	M	Issue No.	74
LM End	2.36	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.846687 °	37.846687 °
				-121.324278 °	-121.324278 °
DWR ID	DWR_RD0544_01_f_2013_74				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	2.37	Rating **	A/W	Issue No.	65	
LM End	2.37	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Trim / Thin Trees			37.846660 °		37.846660 °
				-121.324240 °		-121.324240 °
DWR ID	DWR_RD0544_01_s_2013_65					
Action/Comments						
Thin trees to allow visibility of the ground and room to flood fight.						

No Photos

LM Start	2.38	Rating **	M	Issue No.	67
LM End	2.38	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.846508 °	37.846508 °
				-121.324103 °	-121.324103 °
DWR ID	DWR_RD0544_01_s_2013_67				
Action/Comments					
Building					
Inspector Comments: Building has been in place for several years.					

Photo 1 of 1 : SP_2015_RD0544_108_67_20150309_00045.jpg



Looking southeast at building at landward toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	2.40	Rating **	M	Issue No.	68
LM End	2.40	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.846315 °	37.846315 °
				-121.323875 °	-121.323875 °
DWR ID	DWR_RD0544_01_s_2013_68				
Action/Comments					
Equipment					
Inspector Comments: Equipment on landward toe.					

Photo 1 of 1 : SP_2015_RD0544_108_68_20150309_00046.jpg



Looking west at equipment at landward toe.

LM Start	2.45	Rating **	M	Issue No.	171
LM End	2.45	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.845968 °	37.845968 °
				-121.323357 °	-121.323357 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:24888 DS_ID:22654 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - pipe 2 ft. below the crown soil around the siphon breaker eroded. FIELD_STRUCT_DESC: 8-inch pipe through the levee, 2 feet below the crown. Siphon breaker waterside slope. Pump on drainage channel bank. FS Date: 10/29/2013					

No Photos

LM Start	2.46	Rating **	A/W	Issue No.	99
LM End	3.18	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.845640 °	37.837391 °
				-121.322975 °	-121.317456 °
DWR ID	DWR_RD0544_01_f_2014_99				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 1 : SP_2015_RD0544_108_99_20150309_00055.jpg



Looking south at dense vegetation on waterward shoulder and slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	2.57	Rating **	M	Issue No.	91
LM End	2.57	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.844423 °	37.844423 °
				-121.321896 °	-121.321896 °
DWR ID	DWR_RD0544_01_s _ 2014_91				
Action/Comments					
Pipe					
Inspector Comments: Landowner repaired pipe without maintenance letter. Erosion around pipe on landward shoulder.					

Photo 1 of 2 : SP_2015_RD0544_108_91_20150309_00052.jpg



Looking south at partially open trench around pipe on landward shoulder and slope.

LM Start	2.57	Rating **	M	Issue No.	91 (cont)
LM End	2.57	Issue Type +	En	Location *	LS

Photo 2 of 2 : SP_2015_RD0544_108_91_20150309_00053.jpg



Looking at open trench with irrigation pipe on landward shoulder and slope.

LM Start	2.57	Rating **	M	Issue No.	60
LM End	2.57	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.844337 °	37.844337 °
				-121.321853 °	-121.321853 °
DWR ID	DWR_RD0544_01_s _ 2012_60				
Action/Comments					
Repair the levee slope damaged by foot traffic and prevent access where possible.					

Photo 1 of 2 : SP_2015_RD0544_108_60_20150309_00039.jpg



Looking north at slope damage on landside slope.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	2.57	Rating **	M	Issue No.	60 (cont)	
LM End	2.57	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Slope Stability			37.844337 °		37.844337 °
				-121.321853 °		-121.321853 °
DWR ID	DWR_RD0544_01_s_2012_60					
Action/Comments						
Repair the levee slope damaged by foot traffic and prevent access where possible.						

Photo 2 of 2 : SP_2015_RD0544_108_60_20150309_00040.jpg



Looking south at slope damage on landside slope.

LM Start	2.59	Rating **	U	Issue No.	172
LM End	2.59	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.844386 °	37.844386 °
				-121.321894 °	-121.321894 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:24889 DS_ID:22655 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: Siphon breaker on the landward shoulder not found. Service pole on landside. Huge erosion on landside and waterside of the levee due to the pipe leakage. FIELD_STRUCT_DESC: 12-inch steel pipe through the levee, 2.0 feet below the crown; pump mounted on pile structure in the stream. Steel walkway to the pump. Air relief valve on the waterside shoulder. Concrete distribution box at the toe of the landward slope. O&M Manual SJR 007, April 1964. FS Date: 10/29/2013					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	2.65	Rating **	A/W	Issue No.	100
LM End	2.94	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.843262 °	37.840656 °
				-121.321666 °	-121.318590 °
DWR ID	DWR_RD0544_01_f_2014_100				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 1 : SP_2015_RD0544_108_100_20150309_00056.jpg



Looking south at vegetation on levee crown.

LM Start	2.84	Rating **	N	Issue No.	22
LM End	2.84	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.841075 °	37.841075 °
				-121.320205 °	-121.320205 °
DWR ID	DWR_RD0544_01_s_2012_22				
Action/Comments					
Tree stumps.					

No Photos

LM Start	2.87	Rating **	M	Issue No.	69
LM End	2.87	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.841032 °	37.841032 °
				-121.319748 °	-121.319748 °
DWR ID	DWR_RD0544_01_s_2013_69				
Action/Comments					
Ramp					
Inspector Comments: Unauthorized ramp on waterward slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	2.89	Rating **	M	Issue No.	106
LM End	2.89	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.840952 °	37.840952 °
				-121.319327 °	-121.319327 °
DWR ID	DWR_RD0544_01_s_2015_106				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	2.95	Rating **	M	Issue No.	107
LM End	2.96	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.840560 °	37.840467 °
				-121.318463 °	-121.318367 °
DWR ID	DWR_RD0544_01_s_2015_107				
Action/Comments					
Note and monitor erosion site. Inspector Comments: Several depressions on landward slope within this reach.					

Photo 1 of 2 : SP_2015_RD0544_108_107_20150430_00078.jpg



Looking south at depression on landward slope.

LM Start	2.95	Rating **	M	Issue No.	107 (cont)
LM End	2.96	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP_2015_RD0544_108_107_20150430_00079.jpg



Looking west at depression on landward shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	2.95	Rating **	U	Issue No.	78
LM End	2.95	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.840697 °	37.840697 °
				-121.318252 °	-121.318252 °
DWR ID	DWR_RD0544_01_s _ 2015_78				
Action/Comments					
Inspector Comments: 6/19/2014: No significant change observed. 08/13/2013: Pump has been removed. A larger pocket erosion has been found at the erosion site. 08/07/2012: The erosion is immediately upstream of a river bend. Dense vegetation is visible at the erosion site. [2014 Site ID:RD0544U01RM49.67]					

Photo 1 of 1 : SP_2015_RD0544_108_78_20150309_00048.jpg



Upstream view of the site.

LM Start	2.95	Rating **	M	Issue No.	47
LM End	3.19	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.840485 °	37.837225 °
				-121.318390 °	-121.317408 °
DWR ID	DWR_RD0544_01_s _ 2012_47				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	2.96	Rating **	A/W	Issue No.	16
LM End	2.96	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.840483 °	37.840483 °
				-121.318370 °	-121.318370 °
DWR ID	DWR_RD0544_01_s _ 2012_16				
Action/Comments					
Pipe Inspector Comments: Landowner installing temporary irrigation system across levee crown without permit. Pipe is leaking and causing erosion on waterside slope and berm. Landowner also installed a concrete wall around pump.Landowner has disconnected the temporary pipe and pump on waterward berm. Pipes on waterside still on water. Concrete wall still in place.					

Photo 1 of 12 : SP_2015_RD0544_108_16_20150309_00010.jpg



Looking east at concrete wall on waterward berm.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	2.96	Rating **	A/W	Issue No.	16 (cont)
LM End	2.96	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.840483 °	37.840483 °
				-121.318370 °	-121.318370 °
DWR ID	DWR RD0544_01 s 2012 16				

Action/Comments

Pipe

Inspector Comments: Landowner installing temporary irrigation system across levee crown without permit. Pipe is leaking and causing erosion on waterside slope and berm. Landowner also installed a concrete wall around pump. Landowner has disconnected the temporary pipe and pump on waterward berm. Pipes on waterside still on water. Concrete wall still in place.

LM Start	2.96	Rating **	A/W	Issue No.	16 (cont)
LM End	2.96	Issue Type +	En	Location *	LS

Photo 2 of 12 : SP_2015_RD0544_108_16_20150309_00011.jpg



Looking north at inch and half pipe at landward shoulder.

Photo 3 of 12 : SP_2015_RD0544_108_16_20150309_00012.jpg



Looking north at concrete wall on waterward berm.

Photo 4 of 12 : SP_2015_RD0544_108_16_20150309_00013.jpg



Looking west at filter system on landward berm

LM Start	2.96	Rating **	A/W	Issue No.	16 (cont)
LM End	2.96	Issue Type +	En	Location *	LS

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	2.96	Rating **	A/W	Issue No.	16 (cont)
LM End	2.96	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.840483 °	37.840483 °
				-121.318370 °	-121.318370 °
DWR ID	DWR_RD0544_01_s _ 2012_16				
Action/Comments					
Pipe Inspector Comments: Landowner installing temporary irrigation system across levee crown without permit. Pipe is leaking and causing erosion on waterside slope and berm. Landowner also installed a concrete wall around pump.Landowner has disconnected the temporary pipe and pump on waterward berm. Pipes on waterside still on water. Concrete					

Photo 5 of 12 : SP_2015_RD0544_108_16_20150309_00014.jpg



Looking east at landowner installing temporary pump system without permit and damage to waterside slope.

Photo 6 of 12 : SP_2015_RD0544_108_16_20150309_00015.jpg



Looking east at pump and irrigation ramp on levee waterside and crown.

Photo 7 of 12 : SP_2015_RD0544_108_16_20150309_00016.jpg



Looking south at damage landside slope caused by vehicle traffic.

LM Start	2.96	Rating **	A/W	Issue No.	16 (cont)
LM End	2.96	Issue Type +	En	Location *	LS

LM Start	2.96	Rating **	A/W	Issue No.	16 (cont)
LM End	2.96	Issue Type +	En	Location *	LS

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	2.96	Rating **	A/W	Issue No.	16 (cont)
LM End	2.96	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.840483 °	37.840483 °
				-121.318370 °	-121.318370 °
DWR ID	DWR_RD0544_01_s_2012_16				
Action/Comments					
Pipe Inspector Comments: Landowner installing temporary irrigation system across levee crown without permit. Pipe is leaking and causing erosion on waterside slope and berm. Landowner also installed a concrete wall around pump.Landowner has disconnected the temporary pipe and pump on waterward berm. Pipes on waterside still on water. Concrete					

Photo 8 of 12 : SP_2015_RD0544_108_16_20150309_00017.jpg



Looking east at concrete wall around temporary pump on waterward berm. (Spring 2014)

LM Start	2.96	Rating **	A/W	Issue No.	16 (cont)
LM End	2.96	Issue Type +	En	Location *	LS

Photo 9 of 12 : SP_2015_RD0544_108_16_20150309_00018.jpg



Looking east at erosion caused by leaking pipe on waterside slope.

LM Start	2.96	Rating **	A/W	Issue No.	16 (cont)
LM End	2.96	Issue Type +	En	Location *	LS

Photo 10 of 12 : SP_2015_RD0544_108_16_20150309_00019.jpg



Looking northeast at unauthorized pump system on waterside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	3.14	Rating **	M	Issue No.	76
LM End	3.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.837929 °	37.837929 °
				-121.317663 °	-121.317663 °
DWR ID	DWR_RD0544_01_f_2013_76				
Action/Comments					
Repair slope instability. Inspector Comments: Slope damaged extends from levee slope to shoulder.					

Photo 1 of 1 : SP_2015_RD0544_108_76_20150309_00047.jpg



Looking east at slope damage on waterward slope.

LM Start	3.17	Rating **	M	Issue No.	62
LM End	3.17	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.837530 °	37.837530 °
				-121.317510 °	-121.317510 °
DWR ID	DWR_RD0544_01_s_2012_62				
Action/Comments					
Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comments: Slope damage due to foot traffic.					

Photo 1 of 1 : SP_2015_RD0544_108_62_20150309_00041.jpg



Looking east at slope damaged by foot traffic near pump house on waterside of levee.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	3.19	Rating **	U	Issue No.	173
LM End	3.19	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.837556 °	37.837556 °
				-121.317523 °	-121.317523 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:43025 DS_ID:22656 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: - huge levee slope erosion on landside. Walkway to distro box on LS toe in poor structural condition. 1-inch electric conduit, power pole on landside. not clear whether this is a irrigation or drainage pipe. FIELD_STRUCT_DESC: 1 of 2: Two 14-inch steel pipes through the levee, 8.0 feet below the crown. Slide gates in 6-foot by 6-foot concrete distribution box at the toe of the landward slope. O&M Manual SJR 007, April 1964. FS Date: 10/29/2013					

No Photos

LM Start	3.19	Rating **	U	Issue No.	174
LM End	3.19	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.837544 °	37.837544 °
				-121.317517 °	-121.317517 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:43026					
DS_ID:22681					
EP_NO: N/A					
Repair Type: Urgent					
Crossing Status: Found					
UCIP Comments: Huge erosion and levee damage on landside slope due to the leaky pipe. Walkway to distro box on LS toe in poor structural condition.					
FIELD_STRUCT_DESC: 2 of 2: Two 14-inch steel pipes through the levee, 5.0 feet below the crown. Gate valve in pump house on the waterward slope. Slide gates in 6-foot by 6-foot concrete distribution box at the toe of the landward slope. 1-inch electric conduit on waterside, power pole on landside.Flow meter on waterside. O&M Manual SJR 007, April 1964.					
FS Date: 10/29/2013					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	3.22	Rating **	M	Issue No.	49
LM End	3.84	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.836763 °	37.829195 °
				-121.317307 °	-121.311918 °
DWR ID	DWR_RD0544_01_s _ 2012_49				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 1 : SP_2015_RD0544_108_49_20150430_00080.jpg



Looking southwest at untrimmed trees at landward toe.

LM Start	3.23	Rating **	M	Issue No.	48
LM End	3.26	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.836615 °	37.836133 °
				-121.317285 °	-121.317153 °
DWR ID	DWR_RD0544_01_s _ 2012_48				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	3.28	Rating **	M	Issue No.	37
LM End	3.28	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.835951 °	37.835951 °
				-121.317062 °	-121.317062 °
DWR ID	DWR_RD0544_01_s _ 2012_37				
Action/Comments					
Ramp					
Inspector Comments: Landowner has cut new ramp on waterside slope.					

Photo 1 of 1 : SP_2015_RD0544_108_37_20150309_00033.jpg



Looking north at ramp on waterward slope.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	3.29	Rating **	M	Issue No.	50
LM End	3.29	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.835815 °	37.835815 °
				-121.316997 °	-121.316997 °
DWR ID	DWR_RD0544_01_s _ 2012_50				
Action/Comments					
Note and monitor erosion site.					
Inspector Comments: Erosion located on waterside shoulder. Erosion caused by rain runoff.					

Photo 1 of 1 : SP_2015_RD0544_108_50_20150309_00036.jpg



Looking east at erosion on waterward slope.

LM Start	3.48	Rating **	M	Issue No.	56
LM End	3.48	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.833583 °	37.833583 °
				-121.314968 °	-121.314968 °
DWR ID	DWR_RD0544_01_s _ 2012_56				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	3.49	Rating **	M	Issue No.	51
LM End	4.67	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.833432 °	37.821853 °
				-121.314792 °	-121.319992 °
DWR ID	DWR_RD0544_01_s _ 2012_51				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	3.76	Rating **	M	Issue No.	109
LM End	3.92	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.830250 °	37.828013 °
				-121.312323 °	-121.311467 °
DWR ID	DWR_RD0544_01_s_2015_109				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	3.90	Rating **	M	Issue No.	102
LM End	4.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.828372 °	37.822028 °
				-121.311607 °	-121.319429 °
DWR ID	DWR_RD0544_01_f_2014_102				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	3.94	Rating **	A/W	Issue No.	63
LM End	4.30	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.827800 °	37.824953 °
				-121.311332 °	-121.314988 °
DWR ID	DWR_RD0544_01_s_2012_63				
Action/Comments					
Add appropriate gravel or road base. Grade and compact.					

Photo 1 of 1 : SP_2015_RD0544_108_63_20150309_00042.jpg



Looking south at one of several sites needing gravel or road base on levee crown.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	3.97	Rating **	M	Issue No.	24
LM End	3.97	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.827360 °	37.827360 °
				-121.311067 °	-121.311067 °
DWR ID	DWR_RD0544_01_s _ 2015_24				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	4.03	Rating **	M	Issue No.	11
LM End	4.05	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.826621 °	37.826315 °
				-121.310820 °	-121.311024 °
DWR ID	DWR_RD0544_01_s _ 2012_11				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

No Photos

LM Start	4.09	Rating **	M	Issue No.	110
LM End	4.09	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.825852 °	37.825852 °
				-121.311542 °	-121.311542 °
DWR ID	DWR_RD0544_01_s _ 2015_110				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	4.14	Rating **	M	Issue No.	52
LM End	4.30	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.825762 °	37.825005 °
				-121.312393 °	-121.314982 °
DWR ID	DWR_RD0544_01_s _ 2012_52				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	4.23	Rating **	M	Issue No.	79
LM End	4.23	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.825248 °	37.825248 °
				-121.313856 °	-121.313856 °
DWR ID	DWR_RD0544_01_s _ 2015_79				
Action/Comments					
Inspector Comments: 06/19/2014: No significant change observed. 08/13/2013: The erosion has been caused by irrigation pipe. [2014 Site ID:RD0544U01RM51.04]					

Photo 1 of 1 : SP_2015_RD0544_108_79_20150309_00049.jpg



View from upstream of the site.

LM Start	4.24	Rating **	M	Issue No.	57
LM End	4.49	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.825517 °	37.822955 °
				-121.314160 °	-121.316835 °
DWR ID	DWR_RD0544_01_s _ 2012_57				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	4.30	Rating **	A/W	Issue No.	58
LM End	4.30	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Crown Surface / Depressions / Rutting			37.825035 °	37.825035 °
				-121.314967 °	-121.314967 °
DWR ID	DWR_RD0544_01_s _ 2012_58				
Action/Comments					
Repair depressions or ruts in the crown or slope.					
Inspector Comments: Depression across levee crown					

Photo 1 of 2 : SP_2015_RD0544_108_58_20150309_00037.jpg



Looking southeast at depression on waterside shoulder.

Photo 2 of 2 : SP_2015_RD0544_108_58_20150309_00038.jpg



Looking south at depression greater than 6" on waterside shoulder.

LM Start	4.30	Rating **	M	Issue No.	59
LM End	4.30	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.824943 °	37.824943 °
				-121.315008 °	-121.315008 °
DWR ID	DWR_RD0544_01_s _ 2012_59				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	4.32	Rating **	U	Issue No.	101
LM End	4.32	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.824360 °	37.824360 °
				-121.314360 °	-121.314360 °
DWR ID	DWR_RD0544_01_s_2015_101				
Action/Comments					
Inspector Comments: 6/19/2014: No significant change observed. 08/13/2013: This erosion has been caused by instability of the levee . Larger trees exist downstream of the erosion site. [2014 Site ID:RD0544U01RM51.09]					

Photo 1 of 1 : SP_2015_RD0544_108_101_20150309_00057.jpg



View from downstream.

LM Start	4.33	Rating **	M	Issue No.	175
LM End	4.33	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.825071 °	37.825071 °
				-121.314932 °	-121.314932 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:24893 DS_ID:22660 EP_NO: 11536 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - siphon breaker was removed from CMP riser on landside shoulder. Needs replacement.some details about existing pipes available in new Application no. 18903.electric control box on landside and conduit on waterside. FIELD_STRUCT_DESC: 1 of 3: 12-inch diameter steel irrigation pipe, 16-inch diameter steel irrigation pipe and an 8-inch diameter steel discharge pipe through the levee, 3.0 feet below the crown. Pump on pump platform in channel with a walkway to the waterward slope. Siphon breaker in CMP riser and concrete standpipe on landside. (App. No. 11536-Phelps) O&M Manual SJR 007, April 1964. FS Date: 10/29/2013					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	4.40	Rating **	M	Issue No.	54
LM End	6.05	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.823617 °	37.808766 °
				-121.315550 °	-121.328198 °
DWR ID	DWR_RD0544_01_s_2012_54				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	4.48	Rating **	M	Issue No.	103
LM End	4.48	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.823027 °	37.823027 °
				-121.316737 °	-121.316737 °
DWR ID	DWR_RD0544_01_f_2014_103				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

No Photos

LM Start	4.49	Rating **	U	Issue No.	41
LM End	4.49	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.822934 °	37.822934 °
				-121.316870 °	-121.316870 °
DWR ID	DWR_RD0544_01_s_2012_41				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : SP_2015_RD0544_108_41_20150309_00034.jpg



Looking south at elderberries on landside slope and toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	4.64	Rating **	M	Issue No.	104
LM End	4.68	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.822033 °	37.821826 °
				-121.319432 °	-121.320071 °
DWR ID	DWR_RD0544_01_f_2014_104				
Action/Comments					
Thin trees to allow visibility of the ground and room to flood fight.					

No Photos

LM Start	4.68	Rating **	U	Issue No.	27
LM End	4.68	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.821847 °	37.821847 °
				-121.320027 °	-121.320027 °
DWR ID	DWR_RD0544_01_s_2012_27				
Action/Comments					
Garbage					
Inspector Comments: Tires stock pile on landward toe.					

Photo 1 of 1 : SP_2015_RD0544_108_27_20150430_00081.jpg



Looking west at tires stock pile on landward berm.

LM Start	4.69	Rating **	U	Issue No.	105
LM End	4.69	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.821775 °	37.821775 °
				-121.320203 °	-121.320203 °
DWR ID	DWR_RD0544_01_f_2014_105				
Action/Comments					
Thin trees to allow visibility of the ground and room to flood fight.					
Inspector Comments: Tree has overgrown onto levee crown.					

Photo 1 of 1 : SP_2015_RD0544_108_105_20150309_00058.jpg



Looking south at overgrown tree on landward shoulder.

* Location
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

** Rating
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	4.69	Rating **	M	Issue No.	111
LM End	4.69	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.821783 °	37.821783 °
				-121.320237 °	-121.320237 °
DWR ID	DWR_RD0544_01_s_2015_111				
Action/Comments					
Prunings					
Inspector Comments: Prunings on landward shoulder.					

No Photos

LM Start	4.71	Rating **	M	Issue No.	28
LM End	4.71	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.821626 °	37.821626 °
				-121.320471 °	-121.320471 °
DWR ID	DWR_RD0544_01_s_2012_28				
Action/Comments					
Repair slope instability.					

Photo 1 of 2 : SP_2015_RD0544_108_28_20150309_00027.jpg



Looking northeast at erosion around irrigation pipe on landside slope.

Photo 2 of 2 : SP_2015_RD0544_108_28_20150309_00028.jpg



Looking north at erosion around irrigation pipe on landside

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	4.71	Rating **	A/W	Issue No.	29
LM End	4.71	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.821626 °	37.821626 °
				-121.320471 °	-121.320471 °
DWR ID	DWR_RD0544_01_s _ 2012_29				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	4.71	Rating **	M	Issue No.	26
LM End	4.74	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.821592 °	37.821253 °
				-121.320617 °	-121.320927 °
DWR ID	DWR_RD0544_01_s _ 2012_26				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	4.75	Rating **	M	Issue No.	45
LM End	4.75	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.821177 °	37.821177 °
				-121.321013 °	-121.321013 °
DWR ID	DWR_RD0544_01_s _ 2012_45				
Action/Comments					
Building					
Inspector Comments: New unauthorized pump shed on landside toe.					

Photo 1 of 1 : SP_2015_RD0544_108_45_20150309_00035.jpg



Looking west at a unauthorized pump house on landside toe.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	4.77	Rating **	U	Issue No.	112
LM End	4.77	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.820828 °	37.820828 °
				-121.321193 °	-121.321193 °
DWR ID	DWR_RD0544_01_s_2015_112				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : SP_2015_RD0544_108_112_20150430_00082.jpg



Looking southwest at dense trees on landward slope and toe.

LM Start	4.77	Rating **	U	Issue No.	113
LM End	4.77	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.820828 °	37.820828 °
				-121.321193 °	-121.321193 °
DWR ID	DWR_RD0544_01_s_2015_113				
Action/Comments					
Note and monitor erosion site. Inspector Comments: Large hole, possibly a rodent hole, on waterward slope.					

Photo 1 of 1 : SP_2015_RD0544_108_113_20150430_00083.jpg



Looking north at large hole on waterward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	4.79	Rating **	U	Issue No.	176
LM End	4.79	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.821153 °	37.821153 °
				-121.320995 °	-121.320995 °
DWR ID					

No Photos

Action/Comments					
Inspector Comments: FS_ID:24894 DS_ID:22661 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: - huge erosion on landside slope due to leaky pipe. small depression on waterside slope. FIELD_STRUCT_DESC: 12-inch diameter steel pipe through the levee, 4.4 feet below crown. Pump house on the landward slope. Pressure relief valve on the landside slope. Concrete distribution box at toe of landward slope. O&M Manual SJR 007, April 1964. FS Date: 10/31/2013					

LM Start	4.81	Rating **	A/W	Issue No.	30
LM End	4.81	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.820227 °	37.820227 °
				-121.321115 °	-121.321115 °
DWR ID	DWR_RD0544_01_s_2012_30				

No Photos

Action/Comments					
Prunings Inspector Comments: Remove dead stumps at landside toe and prunings on landside slope.					

LM Start	4.83	Rating **	M	Issue No.	31
LM End	6.05	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.820081 °	37.808766 °
				-121.321043 °	-121.328198 °
DWR ID	DWR RD0544_01 s 2012 31				

No Photos

Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

* Location	** Rating	+ Issue Type
LS : Land Side WS : Water Side CR : Crown	A : Acceptable M : Minimally Acceptable U : Unacceptable	Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	4.83	Rating **	M	Issue No.	177
LM End	4.83	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.820691 °	37.820691 °
				-121.321159 °	-121.321159 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:42962 DS_ID:22662 EP_NO: 1738 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Appears abandoned and if so should be done so properly. No handle on gatevalve on WS slope. FIELD_STRUCT_DESC: 12-inch diameter steel pipe through the levee, 6.0 feet below the crown. Gate valve on the waterward slope. Slant pump on the waterward slope. An electric conduit on landside, service pole on landside and two concrete standpipes on landside. (Permit No. 1738 - Barker Corp.) O&M Manual SJR 007, April 1964. FS Date: 10/31/2013					

No Photos

LM Start	4.86	Rating **	M	Issue No.	114
LM End	4.86	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.819642 °	37.819642 °
				-121.320777 °	-121.320777 °
DWR ID	DWR_RD0544_01_s_2015_114				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Cactus on landward slope.					

No Photos

LM Start	4.89	Rating **	M	Issue No.	32
LM End	4.89	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.819249 °	37.819249 °
				-121.320460 °	-121.320460 °
DWR ID	DWR_RD0544_01_s_2012_32				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	4.95	Rating **	M	Issue No.	33
LM End	5.26	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.818718 °	37.814662 °
				-121.319508 °	-121.320302 °
DWR ID	DWR_RD0544_01_s_2012_33				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Vegetation has been sprayed, but still blocking view of landward toe.					

Photo 1 of 5 : SP_2015_RD0544_108_33_20150430_00084.jpg



Looking southwest at dense vegetation at landward slope and toe. (Spring 2015)

LM Start	4.95	Rating **	M	Issue No.	33 (cont)
LM End	5.26	Issue Type +	Ma	Location *	LS

Photo 2 of 5 : SP_2015_RD0544_108_33_20150430_00085.jpg



Looking northwest at dense vegetation at landward toe. (Spring 2015)

LM Start	4.95	Rating **	M	Issue No.	33 (cont)
LM End	5.26	Issue Type +	Ma	Location *	LS

Photo 3 of 5 : SP_2015_RD0544_108_33_20150309_00029.jpg



Looking north at dead vegetation still blocking landward toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	4.95	Rating **	M	Issue No.	33 (cont)
LM End	5.26	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.818718 °	37.814662 °
				-121.319508 °	-121.320302 °
DWR ID	DWR_RD0544_01_s_2012_33				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Vegetation has been sprayed, but still blocking view of landward toe.					



Looking southeast at dense veg. on landside slope and toe.

LM Start	4.95	Rating **	M	Issue No.	33 (cont)
LM End	5.26	Issue Type +	Ma	Location *	LS



Looking south at dead vegetation still blocking landward toe.

LM Start	4.96	Rating **	U	Issue No.	163
LM End	5.01	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments				37.818125 °
					-121.319070 °
DWR ID	DWR_RD0544_01_s_2012_163				
Action/Comments					
Ditch					
Inspector Comments: Agricultural ditch on landside toe.					



Looking southwest at ditch on landside slope and toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain			

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	5.00	Rating **	M	Issue No.	17
LM End	5.00	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.818152 °	37.818152 °
				-121.319095 °	-121.319095 °
DWR ID	DWR_RD0544_01_s _ 2012_17				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	5.34	Rating **	U	Issue No.	35
LM End	5.34	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.813659 °	37.813659 °
				-121.319614 °	-121.319614 °
DWR ID	DWR_RD0544_01_s _ 2012_35				
Action/Comments					
Trees / Woody Vegetation					
Inspector Comments: Bamboo blocking landward toe.					

Photo 1 of 1 : SP_2015_RD0544_108_35_20150309_00032.jpg



Looking south at bamboo on landward slope and toe.

LM Start	5.49	Rating **	U	Issue No.	18
LM End	5.55	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.812033 °	37.811687 °
				-121.319737 °	-121.320677 °
DWR ID	DWR_RD0544_01_s _ 2012_18				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 3 : SP_2015_RD0544_108_18_20150430_00086.jpg



Looking south at dense vegetation on landward slope and toe.(Spring 2015)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	5.49	Rating **	U	Issue No.	18 (cont)	
LM End	5.55	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			37.812033 °		37.811687 °
				-121.319737 °		-121.320677 °
DWR ID	DWR_RD0544_01_s _ 2012_18					
Action/Comments						
Elderberries are blocking visibility and flood fight capability.						

Photo 2 of 3 : SP_2015_RD0544_108_18_20150309_00022.jpg



Looking south at elderberries on landside slope and toe.

LM Start	5.49	Rating **	U	Issue No.	18 (cont)
LM End	5.55	Issue Type +	Ma	Location *	LS

Photo 3 of 3 : SP_2015_RD0544_108_18_20150309_00023.jpg



Looking southwest on elderberries on landside slope and toe.

LM Start	5.64	Rating **	N	Issue No.	40
LM End	5.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.811199 °	37.811199 °
				-121.322176 °	-121.322176 °
DWR ID	DWR_RD0544_01_s _ 2012_40				
Action/Comments					
Tree stumps.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	5.72	Rating **	M	Issue No.	115
LM End	5.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.811225 °	37.811225 °
				-121.323575 °	-121.323575 °
DWR ID	DWR_RD0544_01_s_2015_115				
Action/Comments					
Repair the levee slope damaged by foot traffic and prevent access where possible.					
Inspector Comments: Landowner excavated several steps into landward and waterward slopes					

Photo 1 of 3 : SP_2015_RD0544_108_115_20150430_00087.jpg



Looking west at slope damage on landward slope.

Photo 2 of 3 : SP_2015_RD0544_108_115_20150430_00088.jpg



Looking east at slope damage on waterward slope.

Photo 3 of 3 : SP_2015_RD0544_108_115_20150430_00089.jpg



Looking northwest at slope damage on landward toe.

LM Start	5.72	Rating **	M	Issue No.	115 (cont)
LM End	5.72	Issue Type +	Ma	Location *	LS

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 San Joaquin River	Left	6.05	04/28/2015 04/28/2015	Richard Willoughby

LM Start	5.76	Rating **	M	Issue No.	178
LM End	5.76	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.811193 °	37.811193 °
				-121.323532 °	-121.323532 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:24233					
DS_ID:22664					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: - 2-inch electric conduit on watersideservice pole					

No Photos

LM Start	5.86	Rating **	M	Issue No.	116
LM End	6.04	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.810685 °	37.808880 °
				-121.325827 °	-121.328055 °
DWR ID	DWR_RD0544_01_s_2015_116				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	5.95	Rating **	U	Issue No.	117
LM End	5.95	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.809613 °	37.809613 °
				-121.326758 °	-121.326758 °
DWR ID	DWR_RD0544_01_s_2015_117				
Action/Comments					
Trim trees to at least five feet above ground level.					

Photo 1 of 1 : SP_2015_RD0544_108_117_20150430_00090.jpg



Looking west at untrimmed tree on landward slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Unit Cover Sheet

Spring 2015 Levee Inspection Results

Reclamation District No. 0544 Upper Roberts Island

Waterway			Bank	Unit Miles
Unit No. 02 Old River			Right	4.15
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	04/28/2015 - 04/28/2015			
DWR Inspector	Richard Willoughby			
Accompanied By	Jerry Robinson			

Summer & Winter Inspections

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	04/28/2015 04/28/2015	Richard Willoughby

LM Start	0.03	Rating **	U	Issue No.	3
LM End	0.37	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.808603 °	37.809442 °
				-121.328719 °	-121.334415 °
DWR ID	DWR_RD0544_02_s_2012_3				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 1 : SP_2015_RD0544_109_3_20150430_00053.jpg



Looking south at dense vegetation at landward toe.

LM Start	0.27	Rating **	A/W	Issue No.	2
LM End	0.43	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.808687 °	37.810253 °
				-121.332964 °	-121.334930 °
DWR ID	DWR_RD0544_02_s_2012_2				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	0.40	Rating **	U	Issue No.	4
LM End	0.40	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.809788 °	37.809788 °
				-121.334727 °	-121.334727 °
DWR ID	DWR_RD0544_02_s_2012_4				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 3 : SP_2015_RD0544_109_4_20150309_00001.jpg



Looking northwest at elderberries on landside slope and toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	04/28/2015 04/28/2015	Richard Willoughby

LM Start	0.40	Rating **	U	Issue No.	4 (cont)	
LM End	0.40	Issue Type +	Ma	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Vegetation			37.809788 °		37.809788 °
				-121.334727 °		-121.334727 °
DWR ID	DWR_RD0544_02_s_2012_4					
Action/Comments						
Elderberries are blocking visibility and flood fight capability.						

LM Start	0.40	Rating **	U	Issue No.	4 (cont)
LM End	0.40	Issue Type +	Ma	Location *	LS

Photo 2 of 3 : SP_2015_RD0544_109_4_20150309_00002.jpg



Looking northwest at elderberry on landside slope. (Spring 2012)

Photo 3 of 3 : SP_2015_RD0544_109_4_20150309_00003.jpg



Looking south at elderberries on landside slope.

LM Start	0.43	Rating **	M	Issue No.	1
LM End	1.12	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.810250 °	37.819452 °
				-121.334933 °	-121.333755 °
DWR ID	DWR_RD0544_02_s_2012_1				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 1 : SP_2015_RD0544_109_1_20150430_00054.jpg



Looking southwest at dense vegetation at landward toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	04/28/2015 04/28/2015	Richard Willoughby

LM Start	0.52	Rating **	N	Issue No.	11
LM End	0.52	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.811592 °	37.811592 °
				-121.335018 °	-121.335018 °
DWR ID	DWR_RD0544_02_s_2012_11				
Action/Comments					
Tree stumps.					

No Photos

LM Start	0.64	Rating **	U	Issue No.	46
LM End	0.64	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.813197 °	37.813197 °
				-121.335055 °	-121.335055 °
DWR ID	DWR_RD0544_02_s_2015_46				
Action/Comments					
Note and monitor erosion site. Inspector Comments: Depression greater than one inch deep and greater than three inches on landward shoulder					

Photo 1 of 1 : SP_2015_RD0544_109_46_20150430_00055.jpg



Looking at depression on landward shoulder.

LM Start	0.72	Rating **	U	Issue No.	5
LM End	0.72	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.814333 °	37.814333 °
				-121.334592 °	-121.334592 °
DWR ID	DWR_RD0544_02_s_2012_5				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : SP_2015_RD0544_109_5_20150309_00004.jpg



Looking south at elderberries on landside slope and toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	04/28/2015 04/28/2015	Richard Willoughby

LM Start	0.79	Rating **	U	Issue No.	8
LM End	0.79	Issue Type +	Ma	Location *	WS
Category	Interior Drainage & Piping Systems			GPS Latitude/Longitude	
				Start	End
Item	Erosion Areas			37.815160 °	37.815160 °
				-121.333875 °	-121.333875 °
DWR ID	DWR_RD0544_02_s_2012_8				
Action/Comments					
Inspector Comments: Caving under and around siphon on waterside shoulder. No material 3' below pipe. Caving around siphon is 20" to 24" deep approximately 72" in diameter. During 2012 spring inspection hole appears to be enlarging.					

LM Start	0.79	Rating **	U	Issue No.	8 (cont)
LM End	0.79	Issue Type +	Ma	Location *	WS

LM Start	0.79	Rating **	U	Issue No.	8 (cont)
LM End	0.79	Issue Type +	Ma	Location *	WS

Photo 1 of 8 : SP_2015_RD0544_109_8_20150309_00006.jpg



Looking at top of siphon on waterside shoulder with 3' of caving around pipe.

Photo 2 of 8 : SP_2015_RD0544_109_8_20150309_00007.jpg



Looking at caving around 10" siphon pipe on waterside shoulder.

Photo 3 of 8 : SP_2015_RD0544_109_8_20150309_00008.jpg



Looking south at depression greater than 6" on waterside shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	04/28/2015 04/28/2015	Richard Willoughby

LM Start	0.79	Rating **	U	Issue No.	8 (cont)	
LM End	0.79	Issue Type +	Ma	Location *	WS	
Category	Interior Drainage & Piping Systems			GPS Latitude/Longitude		
				Start	End	
Item	Erosion Areas			37.815160 °	37.815160 °	
				-121.333875 °	-121.333875 °	
DWR ID	DWR_RD0544_02_s_2012_8					
Action/Comments						
Inspector Comments: Caving under and around siphon on waterside shoulder. No material 3' below pipe. Caving around siphon is 20" to 24" deep approximately 72" in diameter. During 2012 spring inspection hole appears to be enlarging.						

Photo 4 of 8 : SP_2015_RD0544_109_8_20150309_00009.jpg



Looking east at caving around siphon on waterside shoulder. (Spring 2012)

LM Start	0.79	Rating **	U	Issue No.	8 (cont)
LM End	0.79	Issue Type +	Ma	Location *	WS

Photo 5 of 8 : SP_2015_RD0544_109_8_20150309_00010.jpg



Looking at top of siphon with a depression greater than 6" on waterside shoulder.

LM Start	0.79	Rating **	U	Issue No.	8 (cont)
LM End	0.79	Issue Type +	Ma	Location *	WS

Photo 6 of 8 : SP_2015_RD0544_109_8_20150309_00011.jpg



Looking west at caving around siphon on waterside shoulder. (Spring 2012)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	04/28/2015 04/28/2015	Richard Willoughby

LM Start	0.79	Rating **	U	Issue No.	8 (cont)	
LM End	0.79	Issue Type +	Ma	Location *	WS	
Category	Interior Drainage & Piping Systems			GPS Latitude/Longitude		
				Start	End	
Item	Erosion Areas			37.815160 °	37.815160 °	
				-121.333875 °	-121.333875 °	
DWR ID	DWR_RD0544_02_s_2012_8					
Action/Comments						
Inspector Comments: Caving under and around siphon on waterside shoulder. No material 3' below pipe. Caving around siphon is 20" to 24" deep approximately 72" in diameter. During 2012 spring inspection hole appears to be enlarging.						

Photo 7 of 8 : SP_2015_RD0544_109_8_20150309_00012.jpg



Looking south at caving around siphon on waterside shoulder.(Spring 2012)

LM Start	0.79	Rating **	U	Issue No.	8 (cont)
LM End	0.79	Issue Type +	Ma	Location *	WS

Photo 8 of 8 : SP_2015_RD0544_109_8_20150309_00013.jpg



Looking south at depression greater than 6" around siphon on waterside shoulder.

LM Start	0.79	Rating **	U	Issue No.	66
LM End	0.79	Issue Type +	En	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.815098 °	37.815098 °
				-121.333903 °	-121.333903 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:24903 DS_ID:22665 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: - 8 ft X 7 ft X 4 ft depression around siphon breaker					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	04/28/2015 04/28/2015	Richard Willoughby

LM Start	1.01	Rating **	M	Issue No.	6
LM End	1.01	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.818100 °	37.818100 °
				-121.332750 °	-121.332750 °
DWR ID	DWR_RD0544_02_s_2012_6				
Action/Comments					
Garbage					

Photo 1 of 1 : SP_2015_RD0544_109_6_20150309_00005.jpg



Looking southeast at garbage on waterside shoulder and slope.

LM Start	1.12	Rating **	U	Issue No.	20
LM End	1.12	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.819530 °	37.819530 °
				-121.333827 °	-121.333827 °
DWR ID	DWR_RD0544_02_s_2012_20				
Action/Comments					
Prunings Inspector Comments: Rubber tires and other items have been added to pruning pile.					

Photo 1 of 4 : SP_2015_RD0544_109_20_20150309_00024.jpg



Looking southwest at trash and pruning pile on landward shoulder and slope.

LM Start	1.12	Rating **	U	Issue No.	20 (cont)
LM End	1.12	Issue Type +	En	Location *	LS

Photo 2 of 4 : SP_2015_RD0544_109_20_20150309_00025.jpg



Looking southwest at pruning pile on landside slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	04/28/2015 04/28/2015	Richard Willoughby

LM Start	1.12	Rating **	U	Issue No.	20 (cont)	
LM End	1.12	Issue Type +	En	Location *	LS	
Category	Earthen Levee			GPS Latitude/Longitude		
				Start		End
Item	Encroachments			37.819530 °		37.819530 °
				-121.333827 °		-121.333827 °
DWR ID	DWR_RD0544_02_s_2012_20					
Action/Comments						
Prunings						
Inspector Comments: Rubber tires and other items have been added to pruning pile.						

Photo 3 of 4 : SP_2015_RD0544_109_20_20150309_00026.jpg



Looking southwest at pruning & garbage piles at landward toe. (Spring 2014)

LM Start	1.12	Rating **	U	Issue No.	20 (cont)
LM End	1.12	Issue Type +	En	Location *	LS

Photo 4 of 4 : SP_2015_RD0544_109_20_20150309_00027.jpg



Looking southwest at garbage and pruning pile at landside toe. (Spring 2012)

LM Start	1.13	Rating **	M	Issue No.	25
LM End	1.19	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.819560 °	37.820083 °
				-121.333893 °	-121.334812 °
DWR ID	DWR_RD0544_02_s _ 2012_25				
Action/Comments					
Fence					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	04/28/2015 04/28/2015	Richard Willoughby

LM Start	1.15	Rating **	M	Issue No.	18
LM End	1.22	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.819830 °	37.820235 °
				-121.334233 °	-121.335268 °
DWR ID	DWR_RD0544_02_s_2012_18				
Action/Comments					
Abandoned vehicles Inspector Comments: Vehicles and farm equipment stored on landside for several years. Area is defined a oversized levee. Landowner is in the process of moving items from landward shoulder.					

Photo 1 of 3 : SP_2015_RD0544_109_18_20150309_00021.jpg



Looking southwest at equipment stored on landward shoulder.

Photo 2 of 3 : SP_2015_RD0544_109_18_20150309_00022.jpg



Looking southwest at vehicles and farm equipment stored on landside landing.

Photo 3 of 3 : SP_2015_RD0544_109_18_20150309_00023.jpg



Looking southwest at farm equipment, vehicles, and other items stored on landside landing.

LM Start	1.15	Rating **	M	Issue No.	18 (cont)
LM End	1.22	Issue Type +	En	Location *	LS

LM Start	1.15	Rating **	M	Issue No.	18 (cont)
LM End	1.22	Issue Type +	En	Location *	LS

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	04/28/2015 04/28/2015	Richard Willoughby

LM Start	1.30	Rating **	U	Issue No.	49
LM End	1.40	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.820767 °	37.821582 °
				-121.336611 °	-121.338102 °
DWR ID	DWR_RD0544_02_f_2014_49				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Tobacco plants on waterward slope.					

Photo 1 of 2 : SP_2015_RD0544_109_49_20150430_00056.jpg



Looking southwest at dense vegetation on landward slope and toe.

Photo 2 of 2 : SP_2015_RD0544_109_49_20150309_00040.jpg



Looking south at several tobacco plants on waterward slope.

LM Start	1.34	Rating **	M	Issue No.	56
LM End	1.45	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.821168 °	37.822083 °
				-121.337212 °	-121.338862 °
DWR ID	DWR_RD0544_02_s_2015_56				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	04/28/2015 04/28/2015	Richard Willoughby

LM Start	1.37	Rating **	M	Issue No.	14
LM End	1.37	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.821323 °	37.821323 °
				-121.337725 °	-121.337725 °
DWR ID	DWR_RD0544_02_s _ 2012_14				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Control bamboo on waterside slope.					

No Photos

LM Start	1.38	Rating **	U	Issue No.	10
LM End	1.38	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.821423 °	37.821423 °
				-121.337878 °	-121.337878 °
DWR ID	DWR_RD0544_02_s _ 2012_10				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 2 : SP_2015_RD0544_109_10_20150309_00015.jpg



Looking southwest at elderberries on landside slope.

LM Start	1.38	Rating **	U	Issue No.	10 (cont)
LM End	1.38	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP_2015_RD0544_109_10_20150309_00016.jpg



Looking south at elderberries on landside slope and toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	04/28/2015 04/28/2015	Richard Willoughby

LM Start	1.39	Rating **	A/W	Issue No.	21
LM End	1.39	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.821463 °	37.821463 °
				-121.337900 °	-121.337900 °
DWR ID	DWR_RD0544_02_s_2012_21				
Action/Comments					
Pipe					
Inspector Comments: Pipe should be removed or properly abandoned.					

LM Start	1.39	Rating **	A/W	Issue No.	21 (cont)
LM End	1.39	Issue Type +	En	Location *	LS

LM Start	1.39	Rating **	A/W	Issue No.	21 (cont)
LM End	1.39	Issue Type +	En	Location *	LS

Photo 1 of 3 : SP_2015_RD0544_109_21_20150309_00028.jpg



Looking east at pipe on landside slope.

Photo 2 of 3 : SP_2015_RD0544_109_21_20150309_00029.jpg



Looking west at east end of pipe on waterside slope.

Photo 3 of 3 : SP_2015_RD0544_109_21_20150309_00030.jpg



Looking east at pipe and erosion just above pipe on landside slope and shoulder.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	04/28/2015 04/28/2015	Richard Willoughby

LM Start	1.40	Rating **	M	Issue No.	67
LM End	1.40	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.821380 °	37.821380 °
				-121.337835 °	-121.337835 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:24905 DS_ID:22668 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - the pipe 3 ft to 4 ft below the crown steel pipe					

No Photos

LM Start	1.42	Rating **	M	Issue No.	22
LM End	1.42	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Slope Stability			37.821697 °	37.821697 °
				-121.338397 °	-121.338397 °
DWR ID	DWR_RD0544_02_s_2012_22				
Action/Comments					
Repair the levee slope damaged by vehicle traffic and prevent access where possible.					
Inspector Comments: Damage caused by vehicle traffic.					

Photo 1 of 2 : SP_2015_RD0544_109_22_20150309_00031.jpg



Looking northwest at slope damage caused by vehicle traffic (Fall 2014).

LM Start	1.42	Rating **	M	Issue No.	22 (cont)
LM End	1.42	Issue Type +	Ma	Location *	LS

Photo 2 of 2 : SP_2015_RD0544_109_22_20150309_00032.jpg



Looking northwest at slope damage caused by vehicle traffic.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	04/28/2015 04/28/2015	Richard Willoughby

LM Start	1.44	Rating **	M	Issue No.	28
LM End	1.44	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.821954 °	37.821954 °
				-121.338715 °	-121.338715 °
DWR ID	DWR_RD0544_02_s_2012_28				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

No Photos

LM Start	1.46	Rating **	M	Issue No.	23
LM End	1.46	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.822082 °	37.822082 °
				-121.338932 °	-121.338932 °
DWR ID	DWR_RD0544_02_s_2012_23				
Action/Comments					
Tree or limb					
Inspector Comments: Dead tree and limbs should be removed from landside shoulder and slope.					

Photo 1 of 1 : SP_2015_RD0544_109_23_20150309_00033.jpg



Looking north at dead tree and tree limbs on landside shoulder and slope.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	04/28/2015 04/28/2015	Richard Willoughby

LM Start	1.53	Rating **	M	Issue No.	68
LM End	1.53	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.822415 °	37.822415 °
				-121.339699 °	-121.339699 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:24288 DS_ID:22669 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - two pumps with 16" steel pipe and an abandoned pump with 10" pipe inside pump house.CMP riser cover needs repair- electric conduits on waterside and power pole on landside. FIELD_STRUCT_DESC: 24-inch steel pipe through the levee, 14.0 feet below the crown. Pump in pump house on the waterward berm. Slide gate in CM pipe riser on the waterward slope. Two CM cutoff walls. Distribution box and power pole on landward toe. O&M Manual SJR 007, April 1964. FS Date: 10/31/2013					

No Photos

LM Start	1.54	Rating **	M	Issue No.	69
LM End	1.54	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.822445 °	37.822445 °
				-121.339910 °	-121.339910 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:24907					
DS_ID:24716					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: No pipe and appurtenances found on waterside looks abandoned.					
FIELD_STRUCT_DESC: An abandoned 8-inch steel pipe through levee. Pump house on landside toe. Air vent in CMP riser on landside shoulder. Outlet on waterside not visible. No positive closure. Appears abandoned.					
FS Date: 10/31/2013					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	04/28/2015 04/28/2015	Richard Willoughby

LM Start	1.66	Rating **	A/W	Issue No.	26
LM End	2.08	Issue Type +	En	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.820863 °	37.819393 °
				-121.341285 °	-121.344428 °
DWR ID	DWR_RD0544_02_s _ 2012_26				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	1.86	Rating **	U	Issue No.	38
LM End	1.86	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.817983 °	37.817983 °
				-121.341682 °	-121.341682 °
DWR ID	DWR_RD0544_02_s _ 2015_38				
Action/Comments					
Note and monitor erosion site.					
Inspector Comments: Erosion/Caving on waterward shoulder and slope 18" x 6" x 15'.					

Photo 1 of 2 : SP_2015_RD0544_109_38_20150430_00057.jpg



Looking southeast at erosion/caving on waterward slope.

Photo 2 of 2 : SP_2015_RD0544_109_38_20150430_00058.jpg



Looking east at erosion/caving on waterward slope.

LM Start	1.86	Rating **	U	Issue No.	38 (cont)
LM End	1.86	Issue Type +	Ma	Location *	WS

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

Reclamation District No. 0544 Upper Roberts Island

No Photos

Looking west at pruning pile at landward toe. (Spring 2015)

Looking at typical rodent holes on landward slope.

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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	04/28/2015 04/28/2015	Richard Willoughby

LM Start	2.20	Rating **	M	Issue No.	60
LM End	2.20	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.820655 °	37.820655 °
				-121.345982 °	-121.345982 °
DWR ID	DWR_RD0544_02_s _ 2015_60				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	2.21	Rating **	M	Issue No.	50
LM End	2.21	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.820646 °	37.820646 °
				-121.346014 °	-121.346014 °
DWR ID	DWR_RD0544_02_f _ 2014_50				
Action/Comments					
Garbage					
Inspector Comments: Discarded intake pipe on waterward slope.					

Photo 1 of 1 : SP_2015_RD0544_109_50_20150309_00041.jpg



Looking northwest at pipe on waterward slope.

LM Start	2.21	Rating **	M	Issue No.	32
LM End	2.21	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.820697 °	37.820697 °
				-121.346050 °	-121.346050 °
DWR ID	DWR_RD0544_02_s _ 2012_32				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	04/28/2015 04/28/2015	Richard Willoughby

LM Start	2.24	Rating **	M	Issue No.	33
LM End	2.35	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.821096 °	37.821945 °
				-121.346418 °	-121.347897 °
DWR ID	DWR_RD0544_02_s _ 2012_33				
Action/Comments					
No rodents visible, but rodent burrows visible; need to backfill and compact or grout burrows.					

No Photos

LM Start	2.25	Rating **	M	Issue No.	70
LM End	2.25	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.820694 °	37.820694 °
				-121.346067 °	-121.346067 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:41731 DS_ID:22675 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - soil erosion on landside slope.new pump and pipe (according to the owner- three months old)electric conduit through levee, service pole on landside. FIELD_STRUCT_DESC: 16-inch steel pipe and electric conduit through the levee, 3.0 feet below the crown. Pump on pile structure in the stream. Pressure breaker on the landward slope. Pipe exposed on both slopes and the berm. O&M Manual SJR 007, April 1964. FS Date: 10/31/2013					

No Photos

LM Start	2.28	Rating **	M	Issue No.	61
LM End	2.28	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees				° 37.821540 °
					° -121.346895 °
DWR ID	DWR_RD0544_02_s _ 2015_61				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	04/28/2015 04/28/2015	Richard Willoughby

LM Start	2.29	Rating **	M	Issue No.	40
LM End	2.29	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.821628 °	37.821628 °
				-121.346972 °	-121.346972 °
DWR ID	DWR_RD0544_02_s _ 2012_40				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	2.31	Rating **	M	Issue No.	51
LM End	2.31	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.821757 °	37.821757 °
				-121.347181 °	-121.347181 °
DWR ID	DWR_RD0544_02_s _ 2014_51				
Action/Comments					
Pipe Inspector Comments: Landowner repaired pump and replaced pipe and left pump shaft and pipe on waterward slope.					

Photo 1 of 1 : SP_2015_RD0544_109_51_20150309_00042.jpg



Looking north at old pump shaft and pipe on waterward slope.

LM Start	2.31	Rating **	M	Issue No.	12
LM End	2.31	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.821763 °	37.821763 °
				-121.347275 °	-121.347275 °
DWR ID	DWR_RD0544_02_s _ 2015_12				
Action/Comments					
Inspector Comments: 07/02/2014: No significant change observed. 08/20/2013: No significant change observed. 08/07/2012: The site was first reported in 2012 spring levee inspection report. The data were estimated as the site is underneath a irrigation pump station and inaccessible by boat or land survey. It's possible the pump station played a role in the erosion. [2014 Site ID:RD0544U02RM33.21]					

Photo 1 of 1 : SP_2015_RD0544_109_12_20150309_00017.jpg



Front view of the erosion site. View is partially blocked by the pump structure and vegetation.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	04/28/2015 04/28/2015	Richard Willoughby

LM Start	2.31	Rating **	U	Issue No.	24
LM End	2.31	Issue Type +	Ma	Location *	WS
Category	Rivers, Channels & Designated Floodways			GPS Latitude/Longitude	
				Start	End
Item	Erosion / Bank Caving			37.821763 °	37.821763 °
				-121.347275 °	-121.347275 °
DWR ID	DWR_RD0544_02_s_2012_24				
Action/Comments					
Inspector Comments: Large erosion and beaver activity at waterside toe of levee.					

Photo 1 of 3 : SP_2015_RD0544_109_24_20150309_00034.jpg



Looking south at beaver hole at waterside toe.

LM Start	2.31	Rating **	U	Issue No.	24 (cont)
LM End	2.31	Issue Type +	Ma	Location *	WS

Photo 2 of 3 : SP_2015_RD0544_109_24_20150309_00035.jpg



Looking south at river erosion at waterside toe near pumping station.

LM Start	2.31	Rating **	U	Issue No.	24 (cont)
LM End	2.31	Issue Type +	Ma	Location *	WS

Photo 3 of 3 : SP_2015_RD0544_109_24_20150309_00036.jpg



Looking north at erosion on waterside slope.

*** Location**
LS : Land Side N/A : Not Applicable
WS : Water Side
CR : Crown

**** Rating**
A : Acceptable N : Not Inspected/Rated
M : Minimally Acceptable C : Corrected
U : Unacceptable A/W : Acceptable but Monitor & Maintain

+ Issue Type
Ma : Maintenance Deficiency
Ob : Design & System Obsolescence
En : Enforcement

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	04/28/2015 04/28/2015	Richard Willoughby

LM Start	2.32	Rating **	M	Issue No.	41
LM End	3.24	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.821840 °	37.819198 °
				-121.347428 °	-121.359940 °
DWR ID	DWR_RD0544_02_s_2012_41				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	2.33	Rating **	M	Issue No.	71
LM End	2.33	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.821628 °	37.821628 °
				-121.347016 °	-121.347016 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:24293 DS_ID:22676 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pump not found on the landward side. FIELD_STRUCT_DESC: 10-inch steel pipe through the levee, 3.0 feet below the crown. No flap gate on the waterward end. Air vent on landside. O&M Manual SJR 007, April 1964. FS Date: 10/31/2013					

No Photos

LM Start	2.44	Rating **	M	Issue No.	42
LM End	3.24	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.821037 °	37.819200 °
				-121.349050 °	-121.359943 °
DWR ID	DWR_RD0544_02_s_2012_42				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	04/28/2015 04/28/2015	Richard Willoughby

LM Start	2.61	Rating **	U	Issue No.	17
LM End	2.61	Issue Type +	En	Location *	WS
Category	Rivers, Channels & Designated Floodways			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.818872 °	37.818872 °
				-121.350392 °	-121.350392 °
DWR ID	DWR_RD0544_02_s_2012_17				
Action/Comments					
Inspector Comments: Remove dilapidated pump platform from river.					

Photo 1 of 1 : SP_2015_RD0544_109_17_20150309_00020.jpg



Looking east at dilapidated pump platform.

LM Start	2.61	Rating **	M	Issue No.	15
LM End	2.61	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			37.818867 °	37.818867 °
				-121.350393 °	-121.350393 °
DWR ID	DWR_RD0544_02_s_2012_15				
Action/Comments					
Pipe Inspector Comments: Abandoned pipe at landside and waterside shoulder is open on both ends.					

Photo 1 of 1 : SP_2015_RD0544_109_15_20150309_00019.jpg



Abandoned pipe at LM 2.65, landside view.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	04/28/2015 04/28/2015	Richard Willoughby

LM Start	2.65	Rating **	M	Issue No.	72
LM End	2.65	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.818888 °	37.818888 °
				-121.350390 °	-121.350390 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:24295 DS_ID:22678 EP_NO: 8625A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: - abandoned crossing. Needs proper abandonment.pump removed. Pipe discontinued on landside.pile structure in dilapalated condion. FIELD_STRUCT_DESC: 16-inch steel pipe through the levee, 7.0 feet below the crown. Pump mounted on pile structure in the stream. Siphon breaker on landward shoulder. Power pole on the landward slope. (App. No. 8625A - Irvin Muller) O&M Manual SJR 007, April 1964. FS Date: 10/31/2013					

No Photos

LM Start	2.65	Rating **	M	Issue No.	73
LM End	2.65	Issue Type +	En	Location *	CR
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.818860 °	37.818860 °
				-121.350428 °	-121.350428 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:24297					
DS_ID:24718					
EP_NO: N/A					
Repair Type: Non-Urgent					
Crossing Status: Found					
UCIP Comments: - needs proper abandonment or closer of pipe end.					
FIELD_STRUCT_DESC: A 14-inch steel pipe and a conduit through					
levee, 2 feet below the crown. Open on both ends. No other					
appurtenances found.					
FS Date: 10/31/2013					

No Photos

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	04/28/2015 04/28/2015	Richard Willoughby

LM Start	2.68	Rating **	M	Issue No.	9
LM End	2.68	Issue Type +	Ma	Location *	WS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR Erosion Survey			37.817760 °	37.817760 °
				-121.350850 °	-121.350850 °
DWR ID	DWR_RD0544_02_s_2015_9				
Action/Comments					
Inspector Comments: 07/02/2014: No significant change observed. 10/11/2013: No significant change observed. 08/07/2012: Series of pocket erosion were discovered at the levee toe during the boat survey. The area is covered with vegetation and riprap, but the rip rap has been washed away. [2014 Site ID:RD0544U02RM32.91]					

Photo 1 of 1 : SP_2015_RD0544_109_9_20150309_00014.jpg



Front view of pocket erosion. Note the vegetation and riprap at the site.

LM Start	2.69	Rating **	A/W	Issue No.	52
LM End	3.20	Issue Type +	Ma	Location *	CR
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.817928 °	37.818824 °
				-121.351355 °	-121.359523 °
DWR ID	DWR_RD0544_02_f_2014_52				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 1 : SP_2015_RD0544_109_52_20150309_00043.jpg



Looking south at vegetation on levee crown.

LM Start	2.71	Rating **	U	Issue No.	43
LM End	3.05	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.817747 °	37.817497 °
				-121.351578 °	-121.357490 °
DWR ID	DWR_RD0544_02_s_2012_43				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 1 : SP_2015_RD0544_109_43_20150309_00039.jpg



Looking south at dense vegetation on landward and waterward slope.

* Location		** Rating		+ Issue Type	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	04/28/2015 04/28/2015	Richard Willoughby

LM Start	2.80	Rating **	M	Issue No.	53
LM End	2.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.817187 °	37.817187 °
				-121.352964 °	-121.352964 °
DWR ID	DWR_RD0544_02_f_2014_53				
Action/Comments					
Thin trees to allow visibility of the ground and room to flood fight.					

No Photos

LM Start	3.20	Rating **	M	Issue No.	30
LM End	3.40	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Animal Control			37.818748 °	37.819717 °
				-121.359440 °	-121.362733 °
DWR ID	DWR_RD0544_02_s_2013_30				
Action/Comments					
Exterminate rodents and backfill and compact or grout burrows.					

No Photos

LM Start	3.22	Rating **	M	Issue No.	62
LM End	3.22	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.818985 °	37.818985 °
				-121.359675 °	-121.359675 °
DWR ID	DWR_RD0544_02_s_2015_62				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	04/28/2015 04/28/2015	Richard Willoughby

LM Start	3.26	Rating **	M	Issue No.	74
LM End	3.26	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.818824 °	37.818824 °
				-121.359526 °	-121.359526 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:24908 DS_ID:22679 EP_NO: 16972 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: Pump not found on the waterward side. Damaged pipe-plug on waterside. Pipe exposed on both sides of the levee. FIELD_STRUCT_DESC: 1 of 2: Two 8-inch pvc pipes (replaced two 8-inch steel pipes) through the levee, 2.0 feet below the crown. Siphon breaker on waterside. Pump on steel platform in drainage ditch. (App. No. 16972 - Joseph & Gayle Muller) FS Date: 10/31/2013					

No Photos

LM Start	3.29	Rating **	M	Issue No.	54
LM End	3.29	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.819635 °	37.819635 °
				-121.360619 °	-121.360619 °
DWR ID	DWR_RD0544_02_f_2014_54				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

No Photos

LM Start	3.48	Rating **	M	Issue No.	36
LM End	3.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.819576 °	37.819530 °
				-121.364056 °	-121.364653 °
DWR ID	DWR_RD0544_02_s_2012_36				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Cactus on landside slope.					

Photo 1 of 2 : SP_2015_RD0544_109_36_20150309_00037.jpg



Looking north at cactus on landside slope and toe.

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable		N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	04/28/2015 04/28/2015	Richard Willoughby

LM Start	3.48	Rating **	M	Issue No.	36 (cont)
LM End	3.51	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.819576 °	37.819530 °
				-121.364056 °	-121.364653 °
DWR ID	DWR_RD0544_02_s_2012_36				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					
Inspector Comments: Cactus on landside slope.					

Photo 2 of 2 : SP_2015_RD0544_109_36_20150309_00038.jpg



Looking southwest at overgrown cactus on landside slope.

LM Start	3.49	Rating **	M	Issue No.	55
LM End	3.52	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			37.819563 °	37.819542 °
				-121.364307 °	-121.364908 °
DWR ID	DWR_RD0544_02_f_2014_55				
Action/Comments					
Thin trees to allow visibility of the ground and room to flood fight.					

No Photos

LM Start	3.55	Rating **	M	Issue No.	47
LM End	4.14	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.819443 °	37.822442 °
				-121.365305 °	-121.374608 °
DWR ID	DWR_RD0544_02_s_2012_47				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	04/28/2015 04/28/2015	Richard Willoughby

LM Start	3.57	Rating **	M	Issue No.	19
LM End	3.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees				° 37.821327 °
					° -121.369023 °
DWR ID	DWR_RD0544_02_f_2013_19				
Action/Comments					
Trim trees to at least five feet above ground level.					

No Photos

LM Start	3.58	Rating **	M	Issue No.	48
LM End	4.14	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.819408 °	37.822442 °
				-121.366005 °	-121.374607 °
DWR ID	DWR_RD0544_02_s_2012_48				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

No Photos

LM Start	3.73	Rating **	M	Issue No.	63
LM End	3.73	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.820492 °	37.820492 °
				-121.368093 °	-121.368093 °
DWR ID	DWR_RD0544_02_s_2015_63				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes. Inspector Comments: Control willows on waterward slope.					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	04/28/2015 04/28/2015	Richard Willoughby

LM Start	4.03	Rating **	U	Issue No.	75
LM End	4.03	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			37.821700 °	37.821700 °
				-121.371752 °	-121.371752 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:24304 DS_ID:22674 EP_NO: 16357 Repair Type: Urgent Crossing Status: Found UCIP Comments: - pipe 3 ft below the crown. Pit and holes on the pipe and the levee. no vent pipe found on waterside. No concrete vent pipe found at the landside toe. was working during the field inspection. FIELD_STRUCT_DESC: 10-inch steel pipe through the levee, 3.0 feet below the crown. Open on waterside end. O&M Manual SJR 7, April 1964. FS Date: 11/19/2013					

No Photos

LM Start	4.05	Rating **	U	Issue No.	64
LM End	4.05	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.821620 °	37.821620 °
				-121.373283 °	-121.373283 °
DWR ID	DWR_RD0544_02_s_2015_64				
Action/Comments					
Elderberries are blocking visibility and flood fight capability.					

Photo 1 of 1 : SP_2015_RD0544_109_64_20150430_00061.jpg



Looking southwest at dense elderberry bush on landward slope and toe.
(Spring 2015)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance
Levee Inspections**

Levee Inspection Report By Mile - Spring 2015

Reclamation District No. 0544 Upper Roberts Island

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 02 Old River	Right	4.15	04/28/2015 04/28/2015	Richard Willoughby

LM Start	4.10	Rating **	U	Issue No.	65
LM End	4.16	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			37.821870 °	37.822623 °
				-121.374125 °	-121.374695 °
DWR ID	DWR_RD0544_02_s _ 2015_65				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 1 : SP_2015_RD0544_109_65_20150430_00062.jpg



Looking southwest at dense vegetation on landward slope and toe.
(Spring 2015)

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown	** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain	+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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